

Nirit Dudovich

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

4,653

citations

31

h-index

68

g-index

76

ext. papers

5,356

ext. citations

13.4

avg, IF

5.22

L-index

#	Paper	IF	Citations
63	High harmonic interferometry of multi-electron dynamics in molecules. <i>Nature</i> , 2009 , 460, 972-7	50.4	812
62	Single-pulse coherently controlled nonlinear Raman spectroscopy and microscopy. <i>Nature</i> , 2002 , 418, 512-4	50.4	576
61	Resolving the time when an electron exits a tunnelling barrier. <i>Nature</i> , 2012 , 485, 343-6	50.4	333
60	Measuring and controlling the birth of attosecond XUV pulses. <i>Nature Physics</i> , 2006 , 2, 781-786	16.2	260
59	Transform-Limited Pulses Are Not Optimal for Resonant Multiphoton Transitions. <i>Physical Review Letters</i> , 2001 , 86, 47-50	7.4	225
58	Femtosecond phase-and-polarization control for background-free coherent anti-Stokes Raman spectroscopy. <i>Physical Review Letters</i> , 2003 , 90, 213902	7.4	185
57	High harmonic spectroscopy of multichannel dynamics in strong-field ionization. <i>Physical Review Letters</i> , 2010 , 104, 213601	7.4	167
56	Atomic wavefunctions probed through strong-field light-matter interaction. <i>Nature Physics</i> , 2009 , 5, 412-416	16.2	149
55	Polarization state of high-order harmonic emission from aligned molecules. <i>Physical Review Letters</i> , 2007 , 99, 243001	7.4	113
54	Single-pulse phase-contrast nonlinear Raman spectroscopy. <i>Physical Review Letters</i> , 2002 , 89, 273001	7.4	106
53	Single-pulse coherent anti-Stokes Raman spectroscopy in the fingerprint spectral region. <i>Journal of Chemical Physics</i> , 2003 , 118, 9208-9215	3.9	101
52	Attosecond circular dichroism spectroscopy of polyatomic molecules. <i>Physical Review Letters</i> , 2009 , 102, 063601	7.4	92
51	Coherent transient enhancement of optically induced resonant transitions. <i>Physical Review Letters</i> , 2002 , 88, 123004	7.4	88
50	Attosecond-resolved photoionization of chiral molecules. <i>Science</i> , 2017 , 358, 1288-1294	33.3	87
49	Strong-field control and spectroscopy of attosecond electron-hole dynamics in molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16556-61	11.5	75
48	Near-threshold high-order harmonic spectroscopy with aligned molecules. <i>Physical Review Letters</i> , 2010 , 105, 143904	7.4	67
47	Attosecond tunnelling interferometry. <i>Nature Physics</i> , 2015 , 11, 815-819	16.2	66

46	Simple route to strong-field coherent control. <i>Physical Review Letters</i> , 2005 , 94, 083002	7.4	64
45	Quantum control of the angular momentum distribution in multiphoton absorption processes. <i>Physical Review Letters</i> , 2004 , 92, 103003	7.4	63
44	Mapping molecular orbital symmetry on high-order harmonic generation spectrum using two-color laser fields. <i>Physical Review Letters</i> , 2010 , 105, 053003	7.4	61
43	Multi-channel electronic and vibrational dynamics in polyatomic resonant high-order harmonic generation. <i>Nature Communications</i> , 2015 , 6, 5952	17.4	53
42	Attosecond time-resolved photoelectron holography. <i>Nature Communications</i> , 2018 , 9, 2805	17.4	49
41	High-order harmonic transient grating spectroscopy in a molecular jet. <i>Physical Review Letters</i> , 2008 , 100, 143903	7.4	47
40	High harmonic generation from aligned molecules—Amplitude and polarization. <i>Journal of Modern Optics</i> , 2008 , 55, 2591-2602	1.1	47
39	Single-beam spectrally controlled two-dimensional Raman spectroscopy. <i>Nature Photonics</i> , 2015 , 9, 339-343	33.9	41
38	Spectral caustics in attosecond science. <i>Nature Photonics</i> , 2012 , 6, 170-173	33.9	41
37	Multidimensional high harmonic spectroscopy of polyatomic molecules: detecting sub-cycle laser-driven hole dynamics upon ionization in strong mid-IR laser fields. <i>Faraday Discussions</i> , 2016 , 194, 369-405	3.6	41
36	Attosecond temporal gating with elliptically polarized light. <i>Physical Review Letters</i> , 2006 , 97, 253903	7.4	40
35	Probe of Multielectron Dynamics in Xenon by Caustics in High-Order Harmonic Generation. <i>Physical Review Letters</i> , 2016 , 117, 093902	7.4	34
34	Attosecond spectral singularities in solid-state high-harmonic generation. <i>Nature Photonics</i> , 2020 , 14, 183-187	33.9	33
33	Role of the ionic potential in high harmonic generation. <i>Physical Review Letters</i> , 2012 , 108, 203001	7.4	28
32	Interferometric attosecond lock-in measurement of extreme-ultraviolet circular dichroism. <i>Nature Photonics</i> , 2019 , 13, 198-204	33.9	25
31	Vectorial Phase Retrieval of 1-D Signals. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 1632-1643	4.8	24
30	Direct single-shot phase retrieval from the diffraction pattern of separated objects. <i>Nature Communications</i> , 2016 , 7, 10820	17.4	22
29	Controlling Subcycle Optical Chirality in the Photoionization of Chiral Molecules. <i>Physical Review X</i> , 2019 , 9,	9.1	21

28	Electronic wavefunctions probed by all-optical attosecond interferometry. <i>Nature Photonics</i> , 2019 , 13, 54-59	33.9	21
27	Spatial molecular interferometry via multidimensional high-harmonic spectroscopy. <i>Nature Photonics</i> , 2020 , 14, 188-194	33.9	20
26	Multidimensional high harmonic spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 174006	1.3	18
25	Vectorial phase retrieval for linear characterization of attosecond pulses. <i>Physical Review Letters</i> , 2011 , 107, 133902	7.4	18
24	Spatio-spectral analysis of ionization times in high-harmonic generation. <i>Chemical Physics</i> , 2013 , 414, 176-183	2.3	17
23	Challenges and opportunities in attosecond and XFEL science. <i>Nature Reviews Physics</i> , 2019 , 1, 107-111	23.6	16
22	Self-probing spectroscopy of XUV photo-ionization dynamics in atoms subjected to a strong-field environment. <i>Nature Communications</i> , 2017 , 8, 1453	17.4	15
21	Robust enhancement of high harmonic generation via attosecond control of ionization. <i>Optics Express</i> , 2018 , 26, 9310-9322	3.3	13
20	Direct phase retrieval in double blind Fourier holography. <i>Optics Express</i> , 2014 , 22, 24935-50	3.3	13
19	Double-blind holography of attosecond pulses. <i>Nature Photonics</i> , 2019 , 13, 91-95	33.9	11
18	Attosecond technology(ies) and science. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021 , 54, 070201	1.3	11
17	High-order harmonic generation spectroscopy by recolliding electron caustics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 134002	1.3	9
16	Subcycle spatial mapping of recollision dynamics. <i>Physical Review A</i> , 2009 , 80,	2.6	9
15	High-order harmonic transient grating spectroscopy of SF6 molecular vibrations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 124023	1.3	8
14	Active semiconductor-based grating waveguide structures. <i>IEEE Journal of Quantum Electronics</i> , 2001 , 37, 1030-1039	2	8
13	Two-Dimensional Frequency Resolved Optomolecular Gating of High-Order Harmonic Generation. <i>Physical Review Letters</i> , 2016 , 116, 053002	7.4	7
12	Shaping electron-hole trajectories for solid-state high harmonic generation control. <i>Optics Express</i> , 2019 , 27, 37835-37845	3.3	6
11	Studying the universality of field induced tunnel ionization times via high-order harmonic spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 204029	1.3	5

10	Single beam low frequency 2D Raman spectroscopy. <i>Optics Express</i> , 2020 , 28, 3803-3810	3.3	5
9	Transient phase masks in high-harmonic generation. <i>Optics Letters</i> , 2007 , 32, 436-8	3	4
8	The Role of Electron Trajectories in XUV-Initiated High-Harmonic Generation. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 378	2.6	3
7	Isolating strong-field dynamics in molecular systems. <i>Physical Review A</i> , 2017 , 95,	2.6	2
6	Shot noise limited characterization of ultraweak femtosecond pulse trains. <i>Optics Express</i> , 2011 , 19, 679-86	3.6	2
5	Direct measurement of Coulomb-laser coupling. <i>Scientific Reports</i> , 2021 , 11, 495	4.9	2
4	Simple Route to Enhancement of Soft X-Ray High Harmonic Generation Sources 2019 ,		1
3	A look under the tunnelling barrier via attosecond-gated interferometry. <i>Nature Photonics</i> , 2022 , 16, 304-310	33.9	1
2	Control and enhancement of multiband high harmonic generation by synthesized laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021 , 54, 154001	1.3	0
1	Robust enhancement of high harmonic generation via attosecond control of ionization. <i>EPJ Web of Conferences</i> , 2019 , 205, 02008	0.3	